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HU, JI-RONG c/o Eric Chan 42 Pin Oaks Drive Phoenixville PA 19460

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of Correction

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**Utility Patent Registration In USA** 

Invention: A SMALL FOUR-STROKE GASOLINE ENGINE WITH OIL MIST LUBRICATION

Registration No: US 7,243,632 Registration Date: 17 July 2007

Registrant: HU, Ji-Rong Docket No.: 10034

I refer to the above registration and my letter dated 14 December 2007 returning the original registration certificate to you. A copy of the letter is attached herewith for your ease of reference. To date, I have not received the amended registration certificate from your Office.

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Page \_\_1\_ of

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO.

: US 7,243,632

APPLICATION NO.: 10/569,027

ISSUE DATE

: 17 July 2007

INVENTOR(S)

: HU, Ji-Rong

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The correct name of the Registrant should be "Ji-Rong HU" instead of "Ji-Rong No HU".

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Signature:	X. M.

## (12) United States Patent

(10) Patent No.:

US 7,243,632 B2

(45) Date of Patent:

Jul. 17, 2007

## (54) SMALL FOUR-STROKE GASOLINE ENGINE WITH OIL MIST LUBRICATION

→ (76) Inventor: Ji-Rong No Hu, Office of the Chief Engineer, Xingyue Group, Gushan

Engineer, Xingyue Group, Gushan Industrial Area, Yongkang City, Zhejiang Province (CN) 321307

(\*) Notice:

Subject to any discisimer, the term of this patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

(21) Appl. No.:

10/569,027

(22) PCT Filed:

Aug. 27, 2004

(86) PCT No.:

PCT/CN2004/000998

§ 371 (c)(1),

(2), (4) Date: F

Feb. 17, 2006

(87) PCT Pub. No.: WO2005/026504

PCT Pub. Date: Mar. 24, 2005

(65)

Prior Publication Data

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(30) Foreign Application Priority Data

(51) Int. Cl.

F01M 1/00

(2006.01)

F01M 1/04

U.S. CL ..... 123/196 R; 184/6.5; 184/6.26;

184/11.1; 184/104.3 123/196 Re

See application file for complete search history.

(56) References Cited

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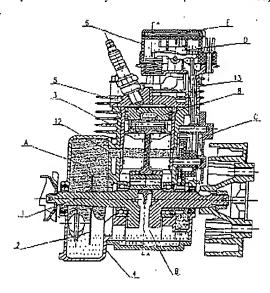
\* cited by examiner

Primary Examiner-Noah P. Karnen

(7) ABSTRACT

The present invention relates to a small four-stroke gasoline engine with oil mist lubrication. The lubrication oil way of the engine includes a crankshaft chamber B, a camshaft chamber C, an upper rocker arm chamber D and a condensation chamber E. The camshaft chamber C communicates with the upper rocker arm chamber D via a tappet cavity 13. The upper rocker arm chamber D communicates with the condensation chamber E. An oil mist chamber A is surrounded by an upper case body 3 and a lower case body 4 at the side of the crankshaft chamber B, the bottom of the oil mist chamber A communicates with the crankshaft chamber B. An oilsplash impeller 2 is fixed on a crankshaft, which extends into the oil mist chamber A. An oil way 12 is provided on the upper case body 3 between the oil mist chamber A and the camshaft chamber C. An oil return way 15 is provided on a cylinder head assembly 5. An oil return way 14 is provided on the upper case body 3. An upper interface of the oil return way 15 communicates with the upper rocker arm chamber D, a lower interface of the oil return way 15 communicates with the oil return way 14, and a lower interface of the oil return way 14 communicates with the crankshaft chamber B. The conventional lubricating mode is changed by the structure of the invention, which makes use of the pressure change during the reciprocating movement of a piston assembly 8 to attain the circulation of oil. The structure is simple, reliable in operation and has small consumption in power.

### 3 Claims, 3 Drawing Sheets



第1頁, 共2頁

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H Employee & Office Directories	Application Type:	Utility	Status Date:	06-27-2007
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Other	Class / Subclass:	123/196.00R	Patent Number:	7,243,632
Trademarks Policy 8 Law	First Named Inventor:	Ji-Rong Hu , Yongkang City, (CN)	Issue Date of Patent:	07-17-2007

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